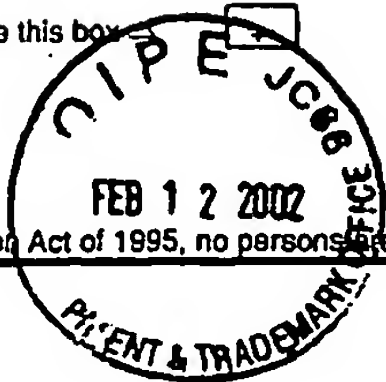


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			Application Number	10/006,922	
			Filing Date	December 4, 2001	
			First Named Inventor	Lukyanov et al.	
			Group Art Unit	N/A	
Examiner Name	N/A				
Sheet	1	of	2	Attorney Docket Number	CLON035CIP

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	U.S. Patent Documents		Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, columns, lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (If known)			
SS		5,491,084		Chalfie et al.	2/13/1996	
		5,874,304		Zolotukhin et al.	2/23/1999	
		5,919,445		Chao	7/6/1999	
		5,958,713		Thastrup et al.	9/28/1999	
		5,968,738		Anderson et al.	10/19/1999	
		5,968,750		Zolotukhin et al.	10/19/1999	
		5,976,796		Szalay et al.	11/2/1999	
		5,985,577		Bulinski	11/16/1999	
		6,020,192		Muzyczka et al.	2/1/2000	
SS		6,066,476		Tsien et al.	5/23/2000	

FOREIGN PATENT DOCUMENTS								
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Documents			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
SS		-	WO 00/46233		Hoegh-Guldberg et al.	08/10/00		
		-	WO 99/49019		Bryan	09/30/99		
		-	WO 01/32688		Ward	05/10/01		
		-	WO 01/34824		Anderson	05/17/01		
		-	WO 00/34318		Lukyanoy et al.	12/10/99		
			WO 00/34320		Lukyanoy et al.	12/10/99		
			WO 00/34321		Lukyanoy et al.	12/10/99		
		-	WO 00/34322		Lukyanoy et al.	12/10/99		
		-	WO 00/34319		Lukyanoy et al.	12/10/99		
		-	WO 00/34323		Lukyanoy et al.	12/10/99		
		-	WO 00/34526		Lukyanoy et al.	12/10/99		
		-	WO 00/34324		Lukyanoy et al.	12/10/99		
		-	WO 00/34325		Lukyanoy et al.	12/10/99		
		-	WO 00/34326		Lukyanoy et al.	12/10/99		
		-	WO 01/27150		Lukyanoy et al.	10/13/00		
SR		-	DE 197 18		Wiedenmann	05/05/97		

*SS*

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SS		Anderluh et al., Biochemical and Biophysical Research Communications (1996) 220:437-442	
		Novak et al., Biological Bulletin (1995) 189:288-297	
		Fradkov et al., FEBS Lett. (2000) 479(3):127-30	
		Gurskaya et al., FEBS Lett., (2001) 507(1):16-20	
		Gurskaya et al., BMC Biochem. (2001) 2:6	
		Lukyanov, K., et al (2000) J Biol Chemistry 275(34):25879-25882	
		Macek et al., Eur. J. Biochem. (1995) 234:329-335	
		Martynov et al., J Biol Chem. (2001) 276:21012-6	
		Matz, M.V., et al. (1999) Nature Biotechnol., 17:969-973	
		Terskikh et al., Science (2000) 290:1585-8	
		Tsien, Annual Rev. of Biochemistry (1998) 67:509-544	
		Tsien, Nat. Biotech. (1999) 17:956-957	
		Ward et al., J. Biol. Chem. (1979) 254:781-788	
		Wiedermann et al., Jahrestagung der Deutschen Gesellschaft fur Tropenokologie-gto. Ulm. 17-19.02.1999. Poster P-4.20	
	SS		Yarbrough et al., Proc Natl Acad Sci U S A (2001) 98:462-7.
Examiner Signature	[Signature]		Date Considered 7/16/2004

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		Application Number	10/006,922		
		Filing Date	December 4, 2001		
		First Named Inventor	LUKYANOV, SERGEY		
		Group Art Unit	1646		
Examiner Name	Unassigned				
Sheet	1	of	1	Attorney Docket Number	CLON-035CIP

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

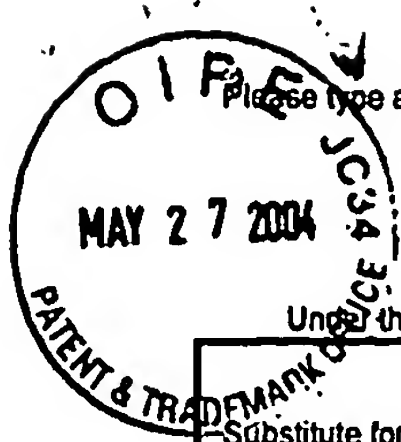
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SS		RONALD WETZEL "Mutations and off-pathway aggregation of proteins" <i>Tibtech</i> , May 1994 (Vol.12) pp.193-198	
I		GEOFFREY S. BAIRD et al. "Biochemistry, mutagenesis, and oligomerization of DsRed, a red fluorescent protein from coral" <i>PNAS</i> , October 24, 2000, Vol. 97, No. 22 pp. 11984-11989.	
I		MARK A. WALL et al. "The structural basis for red fluorescence in the tetrameric GFP homolog DsRed" <i>Nature Structural Biology</i> , Vol. 7, No. 12, December 2000, pp.1133-1138.	
SS		JENS WIEHLER et al. "Mutants of Discosoma red fluorescent protein with a GFP-like chromophore" <i>FEBS Letter</i> , 487 (2001) pp. 384-389.	

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			Application Number	10/006.922	
			Filing Date	December 4, 2001	
			First Named Inventor	LUKYANOV, SERGEY	
			Group Art Unit	1645	
Examiner Name	Unassigned				
Sheet	1	of	1	Attorney Docket Number	CLON-035CIP

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SS		YANG et al. "Optimized codon usage and chromophore mutations provide enhanced sensitivity with the green fluorescent protein" <i>Nucleic Acids Research</i> Vol. 24, No. 22, 4592-4593	
SS		WIEDENMANN et al. "Cracks in the B-can: Fluorescent proteins from <i>Anemonia sulcata</i> (Anthozoa, Actinaria)" <i>PNAS</i> December 19, 2000, Vol. 97, No. 26, pp. 14091-14096	
SS		HAAS et al. "Codon usage limitation in the expression of HIV-1 envelope glycoprotein" <i>Current Biology</i> 1996, Vol. 6, No. 3 315-324	

Examiner Signature		Date Considered	7/16/2004
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